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SHARP 20AG2-SMK3 OPERATION MANUAL

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RP®

تلفزيون ملون

20AG2-SMK3

■ دليل التشغيل ■

يرجى قراءة دليل التشغيل هذا بعناية قبل استعمال التلفزيون الملون.

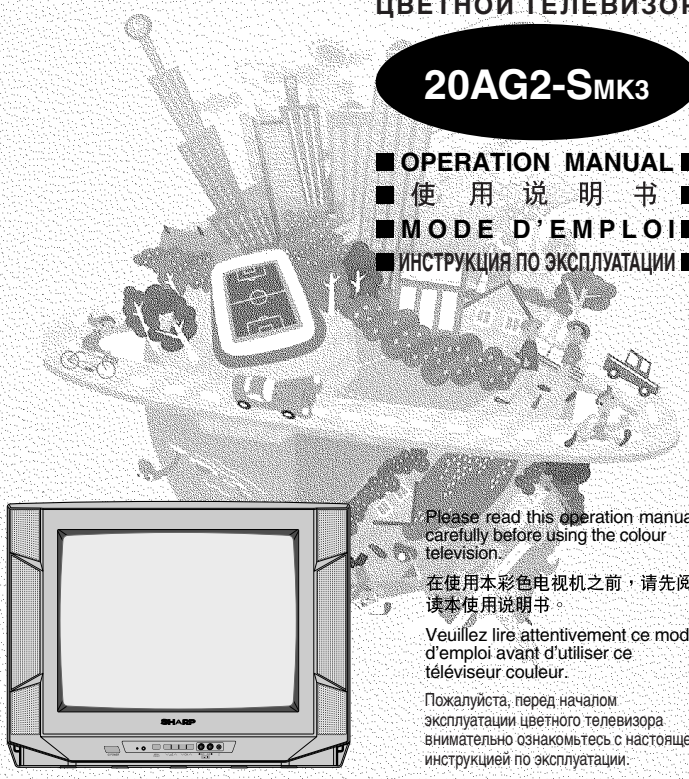
TINS-B767WJZZ
05P02-MSP

SHARP®

COLOUR TELEVISION
彩 色 电 视 机
TÉLÉVISEUR COULEUR
ЦВЕТНОЙ ТЕЛЕВИЗОР

20AG2-SMK3

■ **OPERATION MANUAL** ■
■ 使 用 说 明 书 ■
■ **MODE D'EMPLOI** ■
■ **ИНСТРУКЦИЯ ПО ЭКСПЛУАТАЦИИ** ■



Please read this operation manual carefully before using the colour television.

在使用本彩色电视机之前，请先阅读本使用说明书。

Veuillez lire attentivement ce mode d'emploi avant d'utiliser ce téléviseur couleur.

Пожалуйста, перед началом эксплуатации цветного телевизора внимательно ознакомьтесь с настоящей инструкцией по эксплуатации.

ENGLISH
中文
FRANÇAIS
РУССКИЙ

TINS-B767WJZZ
05P02-MSP

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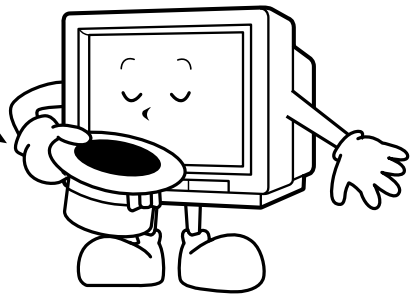
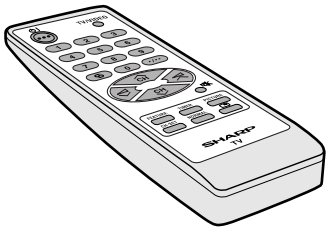
Dear SHARP Customer

Thank you for buying SHARP's Colour Television. We hope you will have many years of enjoyment from this television set. To ensure proper operation, please read this manual carefully, and keep it in a safe place for future reference.

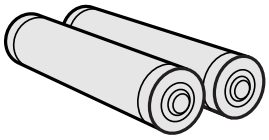


Accessories

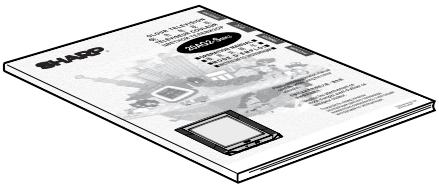
The following accessories are included with this television.



Remote control



Size-AA batteries

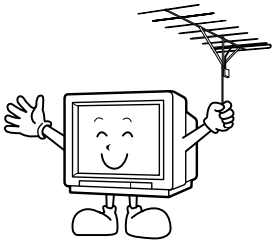


Operation manual

Easy setup

To use your TV set, perform the easy setup procedure below.
The mark indicates the page numbers with more detailed information.

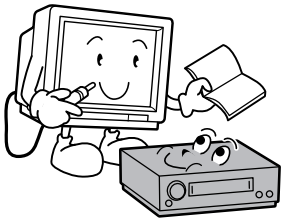
1



Connect the antenna.

- See **22** to connect the antenna.

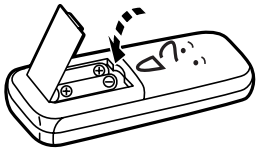
2



Connect any video equipment.

- See **22**, **23** to connect video equipment.
- See the operation manual of your video equipment when connecting to the TV set.

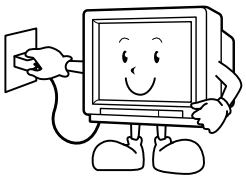
3



Insert the batteries into the remote control.

- Use the two batteries included with the TV.
- See **6**.

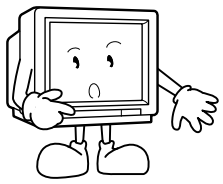
4



Insert the AC plug to the power outlet.

- If you will not use the TV set for a considerable length of time, as a safety precaution, unplug the cord from the outlet.

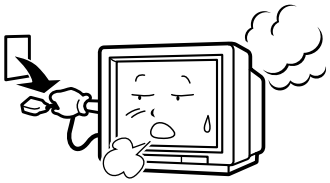
5



Tune the channels.

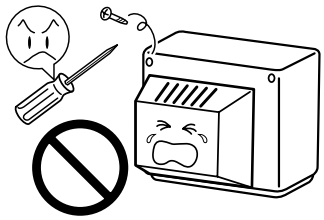
- Use the buttons on the TV.
- See **14**, **15**.

Safety precautions



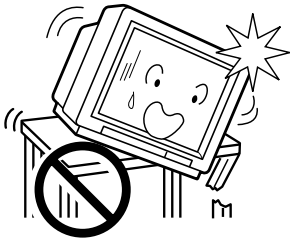
Damage

Turn off the power and unplug the power cord from the wall outlet immediately if the TV set begins to make any unusual noises or gives off smoke or an unusual smell. Then call your dealer for service.



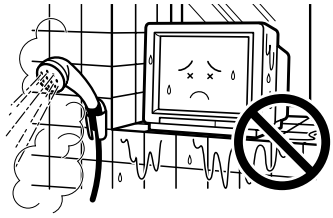
Servicing

To reduce the risk of electric shock, do not remove the back of the cabinet. This TV set contains dangerous voltage.



Unstable surface and shocks

Do not place this TV set on an unstable cart, stand, shelf, or table. The TV set may fall, causing serious injury to a child or adult, and serious damage to the set.
Sharp recommends securing the TV set to a stable surface or wall to prevent the set from falling due to sudden shocks or impact.

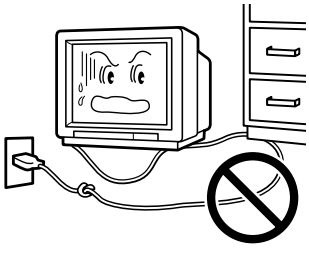


Water

To prevent fire or electrical shock, do not place the TV set near a bathroom, swimming pool or other area where it may become wet.

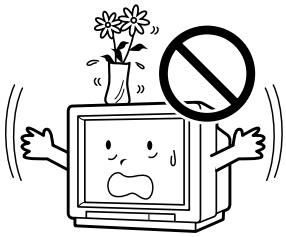
Moisture

To prevent electrical shock, do not use the TV set in an excessively damp place.



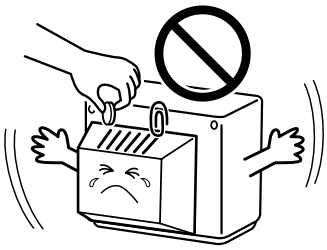
Power-cord protection

To prevent electrical shock, do not subject the AC power cord to damage by bending or twisting it, or by placing heavy items on top of it and do not place the AC power cord under the TV set. If the AC power cord becomes damaged, unplug it from the wall outlet immediately and call your dealer for service.



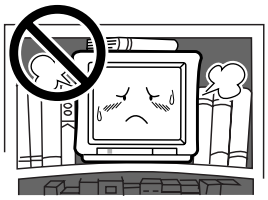
Liquid entry

Do not place a flower vase or anything else containing liquid on the TV set, as liquid spilt on the TV set can cause electrical shock or failure.



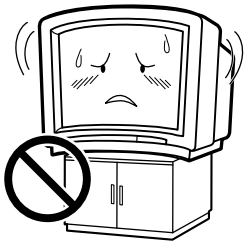
Object entry

Never insert or drop any metallic or inflammable objects into the ventilation openings of the TV set, as this can cause fire, electrical shock, or electrical failure.



Ventilation

Do not place this TV set in a confined area, such as on a bookshelf or in a built-in case. Leave adequate space behind the TV for proper ventilation.

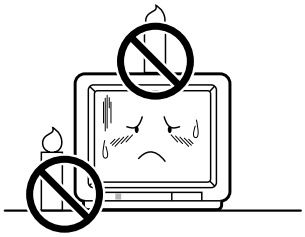


TV Set position

Do place the TV set onto an even stand, table or track which size is bigger than the TV set.
If the TV set is put onto a smaller size or uneven stand, table or track may cause the TV cabinet distort.
Do not put or insert anything between TV set and the stand, table or track.

Uneven surface and excessive force

Television equipment and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart combination to overturn.



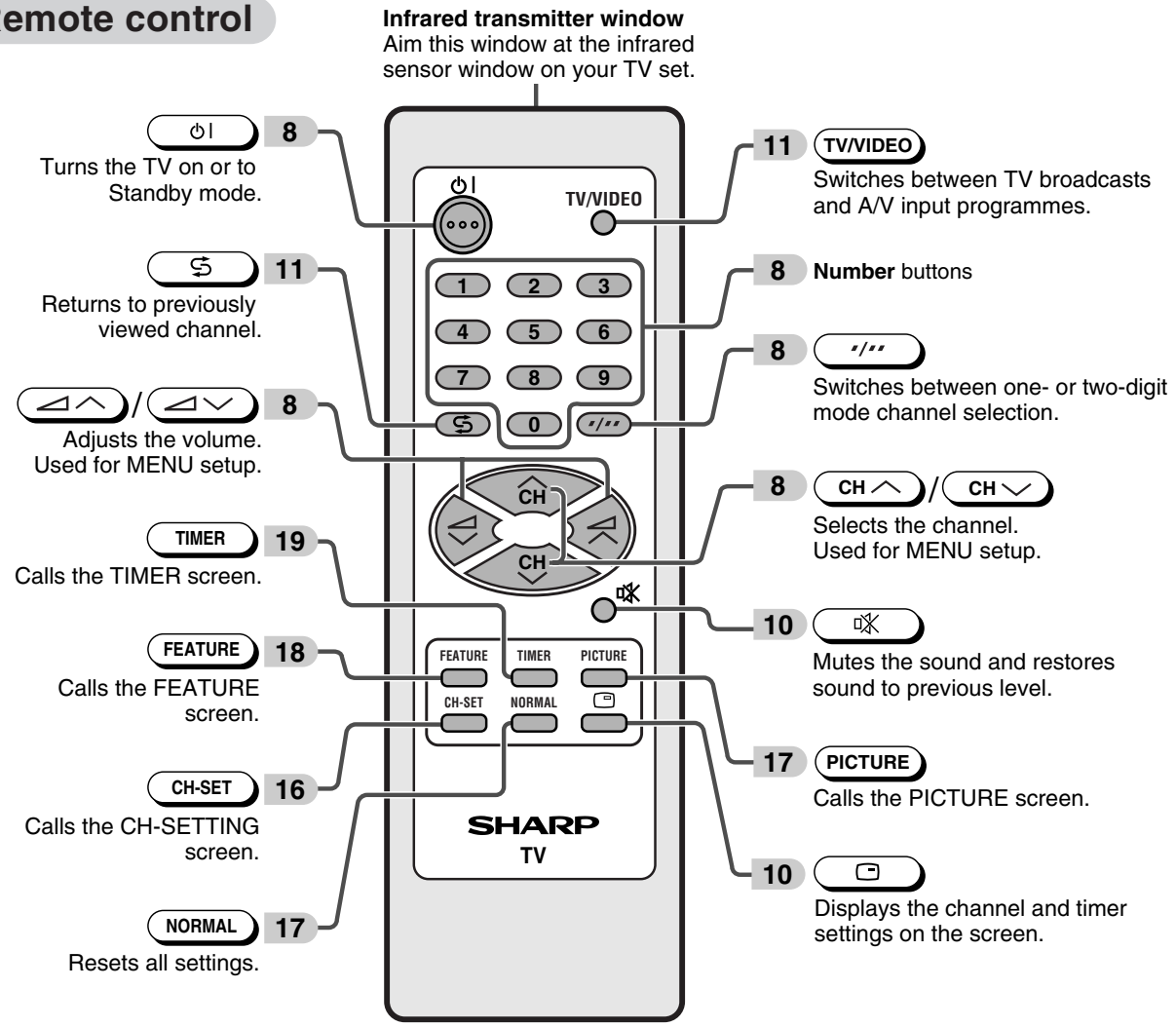
Fire prevention

To prevent fire, never place any type of candle or naked flames on the top or near the TV set.

Part names

The mark indicates the page numbers with more detailed information.

Remote control



8 ⏻I
Turns the TV on or to Standby mode.

11 ⮌
Returns to previously viewed channel.

8 ◿^ / ◿v
Adjusts the volume. Used for MENU setup.

19 TIMER
Calls the TIMER screen.

18 FEATURE
Calls the FEATURE screen.

16 CH-SET
Calls the CH-SETTING screen.

17 NORMAL
Resets all settings.

11 TV/VIDEO
Switches between TV broadcasts and A/V input programmes.

8 **Number** buttons

8 -/--
Switches between one- or two-digit mode channel selection.

8 CH^ / CHv
Selects the channel. Used for MENU setup.

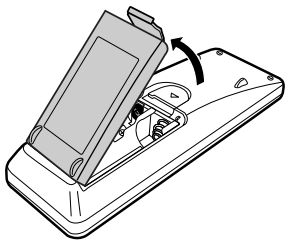
10 🔇
Mutes the sound and restores sound to previous level.

17 PICTURE
Calls the PICTURE screen.

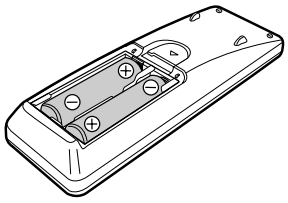
10 ⧉
Displays the channel and timer settings on the screen.

Installing batteries in the remote control unit

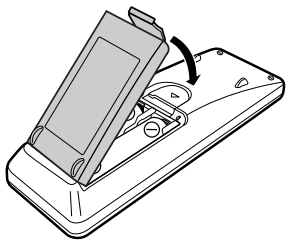
1 With your thumbnail, pull up at the slit to open the battery cover.



2 Insert two batteries (size AA).



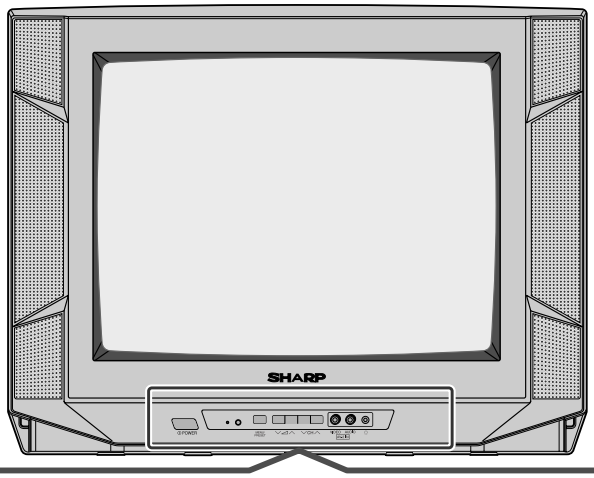
3 Replace the battery cover.



NOTE

- Be sure to match the battery ⊕/⊖ terminals with the ⊕/⊖ marks inside the compartment.
- Remove the batteries if weak or if the unit is not in use for long periods.
- Do not mix old and new batteries.
- Incorrect installation of the batteries may damage the remote control.

TV set



Bottom

8 ⏻ POWER

⏻ POWER switch
Turns on and off the main power.

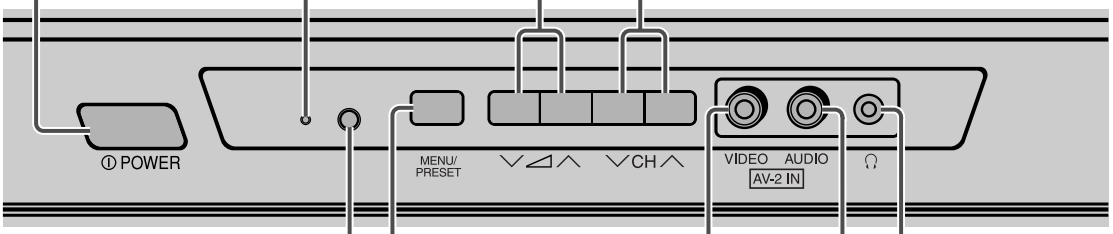
8 **Power indicator**
Power can be turned on by the remote control when the indicator is dimly.

8 ◿ / ◿

Volume up/down buttons
Adjusts the volume.
Makes adjustments in PRESET.

8 CH / CH

Channel up/down buttons
Selects the channels.
Tunes or sets the channels.



Infrared sensor window **6**
Receives the infrared wave from the remote control.

MENU/PRESET **12**

MENU/PRESET button
Tunes the channels.
Used for MENU setup.

9 **Headphone jack**
Use to listen to the audio with headphone.

23 **Audio input terminal (AV-2)**
Connects to a camcorder, video game, etc.

23 **Video input terminal (AV-2)**
Connects to a camcorder, video game, etc.

NOTE • When using headphone, see **9**.

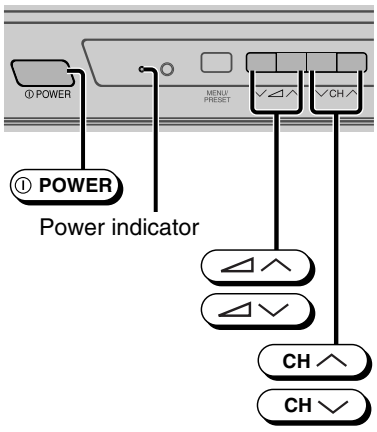
Watching TV

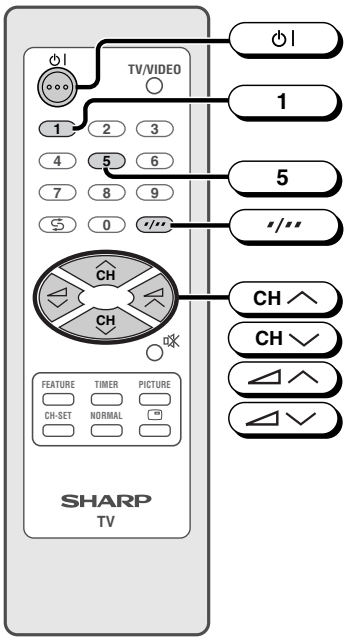
ENGLISH

Watching a TV programme

Simple operations for watching a TV programme

TV Set (Bottom)





1 **Turn on power.**

- When the power indicator is off, press POWER.
- When the power indicator lights up dimly, press ⏻ on the remote control. The power indicator changes to bright and a picture appears.

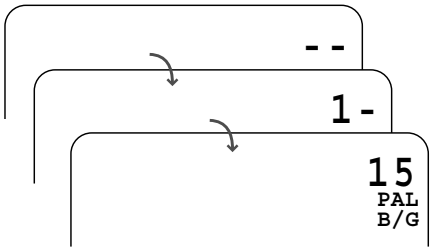
2 **Select channel.**

With CH ∧ / CH ∨

- Press CH ∧ and channels change as shown below.
  1 → 2 → ... → 98 → 99 → AV1 → AV2 → 0 → 1 → 2 ...
- Press CH ∨ and channels change as shown below.
  1 → 0 → AV2 → AV1 → 99 → 98 → ... → 2 → 1 → 0 ...

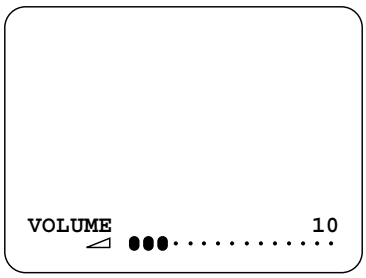
With the number buttons (on remote control)

- To select a one-digit channel, such as 5, press 5.
  If "5-" is indicated, press -/-- to select one-digit input, and then press 5 again.
- To select a two-digit channel, such as 15, press -/-- to select the two-digit input. Press 1, and then press 5.



3 **Adjust volume using ◿ ∧ / ◿ ∨.**

- The number of oval blocks "●" indicates the volume level. The volume bar disappears approximately three seconds after the volume has been adjusted.



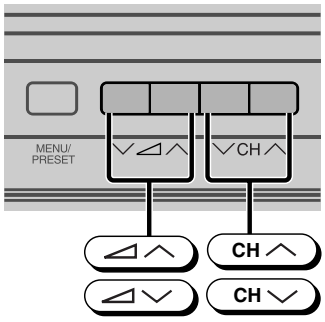
NOTE

- When the power indicator lights up dimly, either CH ∧ / CH ∨ on the TV can be pressed to turn on the power.
- The channel number is displayed in green for channels tuned by auto tuning and displayed in yellow for channels tuned using fine tuning.
- When the power indicator lights up dimly, the TV is in Standby mode and power is still supplied to the TV. If you will not watch TV for a while, turn off the main power by pressing POWER on the TV set. Also, if you will not be at home for a considerable length of time, unplug the cord from the outlet.
- The AV1 and AV2 input channels cannot be selected using CH ∧ / CH ∨ on the remote control. Use TV/VIDEO to select these channel.
- Channels that have been skipped cannot be selected by CH ∧ / CH ∨. See 16.
- The on-screen displays in this manual may differ from their actual appearance.

Operating the TV buttons

Simple operation of the TV set

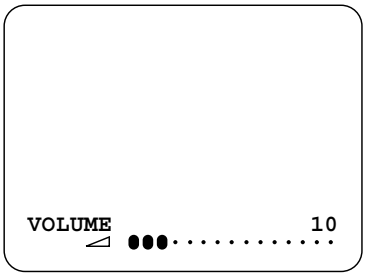
TV Set (Bottom)



Using ◿^ / ◿v

Press ◿^ to increase volume.

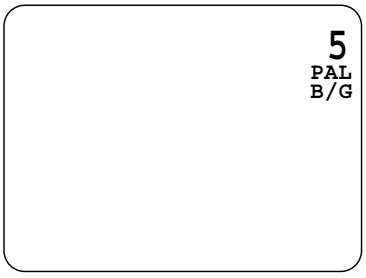
Press ◿v to decrease volume.



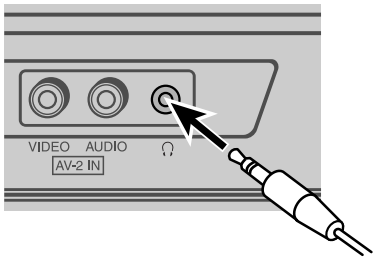
Using CH^ / CHv

Press CH^ to increase channel number.

Press CHv to decrease channel number.



TV Set (Bottom)



Using headphone

Insert headphone plug into headphone jack to listen to audio with headphone.

• The audio from the speakers is turned off.

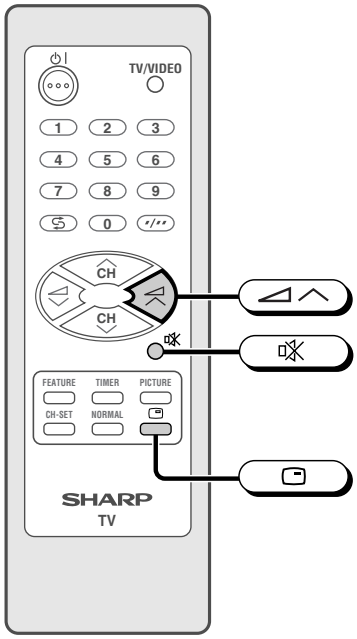
NOTE

- Select an appropriate volume so as not to injure your hearing.
- To avoid injuring your hearing, do not put on the headphone before plugging them into the headphone jack and before the power is turned on.
- The proper impedance for the headphone is 32 ohms.
- Remove the headphone plug from the jack when not using the headphone.

Useful features

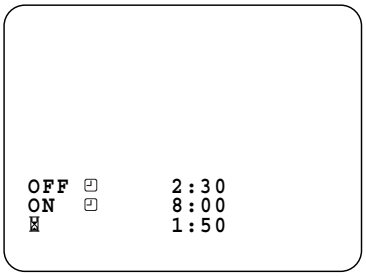
Channel/Timer display

Displays the current channel number, the timer, and other settings on the screen.



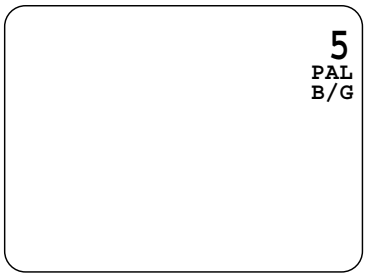
1 **Press .**

- The time remaining on the Off timer, On timer, and Reminder appears on the screen.
- When no timer is set, the channel number, colour and sound system appear on the screen. Press again to clear these current settings display on the screen.



2 **Press again.**

- The channel number, colour and sound system appear on the screen.



3 **Press once again.**

- The display disappears.

Mute

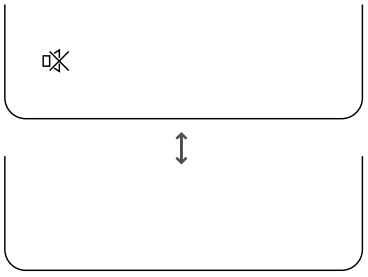
Silences the sound.

1 **Press .**

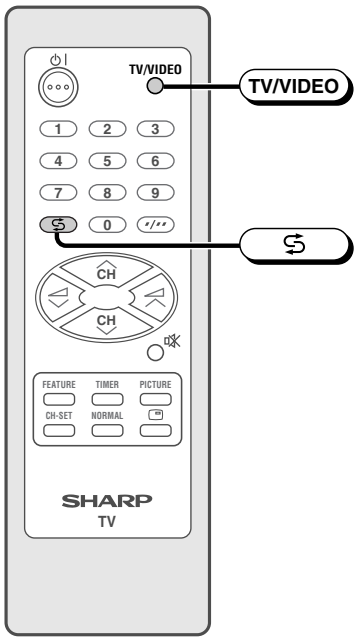
- "🔇" appears on the screen, and the sound is silenced.

2 **Press again.**

- The volume returns to its previous level.



NOTE • Mute will be cancelled if the is pressed at any time.



Channel recall

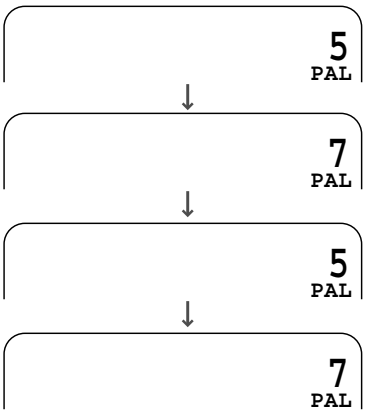
Switches back to the channel you were watching just before the current channel.

Press ⇆.

- The channel previously viewed returns to the screen.

Example:

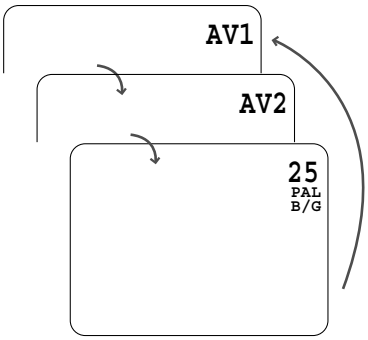
After switching from channel 5 to channel 7, ⇆ is pressed, the channel will change to channel 5. Press ⇆ again to return to channel 7.



TV/Video selection

Switches between TV broadcasts and AV input programmes.

Each time you press the TV/VIDEO, the input switches between AV1, AV2 and TV programme.

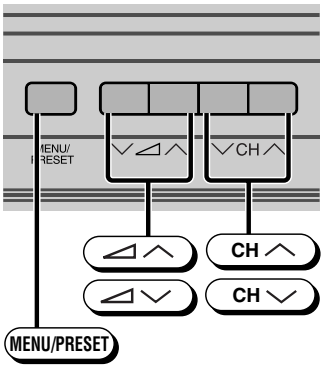


Selecting menu items

This TV set allows you to adjust the picture and sound, and set the channels and other features using the On-screen display with the remote control or from the TV set. Select the desired menu item by following the steps below and then refer to the indicated page for details.

Selecting a menu item

TV Set (Bottom)



1 **Press MENU/PRESET on the TV set to call MENU screen.**

```
MENU

◆PICTURE
 FEATURE
 TIMER
 CH-SETTING
```

2 **Press CH ^ / CH v to select desired menu item.**

- The selected item is highlighted in yellow.

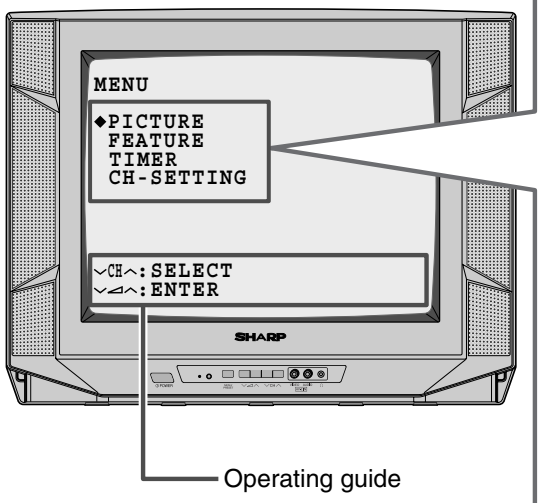
```
MENU

 PICTURE
◆FEATURE
 TIMER
 CH-SETTING
```

3 **Press ◿^ / ◿v to enter.**

- The corresponding menu screen will appear.

```
FEATURE

◆BLUE BACK        ON




v◿^:ADJUST
```

4 **Press MENU/PRESET on the TV set until normal screen appears.**



PICTURE menu ····· 17

```
PICTURE

◆CONTRAST          60
 COLOUR             0
 BRIGHTNESS         0
 TINT
 SHARPNESS          0
 WHITE TEMP      ◆──────◇

vCH^:SELECT
v◿^:ADJUST
```

FEATURE menu ····· 18

```
FEATURE

◆BLUE BACK        OFF




v◿^:ADJUST
```

TIMER menu ····· 19 – 21

```
TIMER

◆OFF ⏎            --:--
 ON  ⏎            --:--
   POSITION
   VOLUME
 ⏎                --:--


vCH^:SELECT
v◿^:ADJUST
```

CH-SETTING menu ····· 16

```
CH-SETTING

◆POSITION         CH27
 COLOUR           AUTO
 SOUND            B/G
 SKIP             OFF
 FINE          168.25MHz


vCH^:SELECT
v◿^:ADJUST
```

NOTE

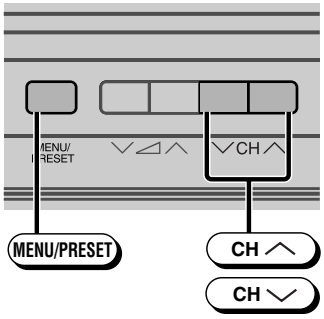
- If you press MENU/PRESET on the TV set for more than two seconds, the LANGUAGE mode screen will appear instead of the MENU screen. To display the MENU screen, press MENU/PRESET until the normal screen appears, then press the button again.
- The procedures for setting and selecting the menu items on the following pages are described using the buttons on the remote control. These procedures can also be performed using the corresponding buttons on the TV set.

Settings and adjustments

On-screen display language selection

The on-screen display language can be set to English, Chinese, French, Russian, Malay or Arabic.

TV Set (Bottom)



TV set

1 **Press MENU/PRESET on the TV set for more than two seconds.**

• The language select mode appear.

2 **Press CH ∧ / CH ∨ to select desired language.**

• Pressing MENU/PRESET changes the screen as shown below.

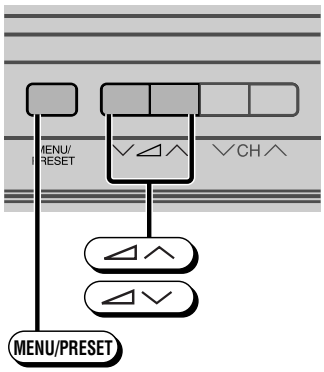
→ Language ⟶ AUTO ⟶ MANUAL
Normal screen ⟵

3 **Press MENU/PRESET on the TV set until normal screen appears.**

Auto channel tuning

Automatically tunes in and presets receivable TV stations.

TV Set (Bottom)



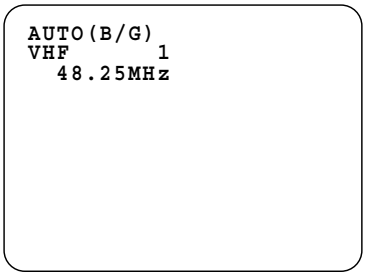
1 **Press MENU/PRESET on the TV set for more than two seconds.**

- The language select mode appear.

2 **Press MENU/PRESET on the TV set again to display AUTO mode screen.**

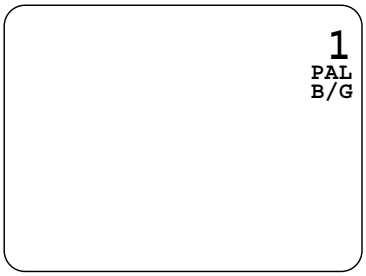
- Pressing MENU/PRESET changes the screen as shown below.

→ Language ⟶ AUTO ⟶ MANUAL →
Normal screen ←



3 **Press ⊿^ / ⊿v on TV set.**

- All the TV stations in your area that can be received by the TV set are automatically preset between channels 1 to 99.
- The screen shows whatever is on channel 1 when auto channel preset is finished.



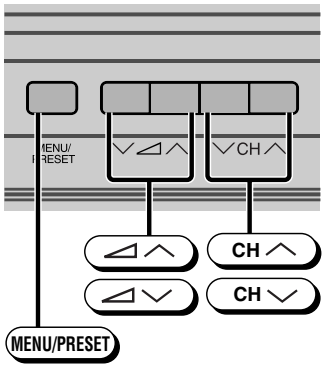
NOTE

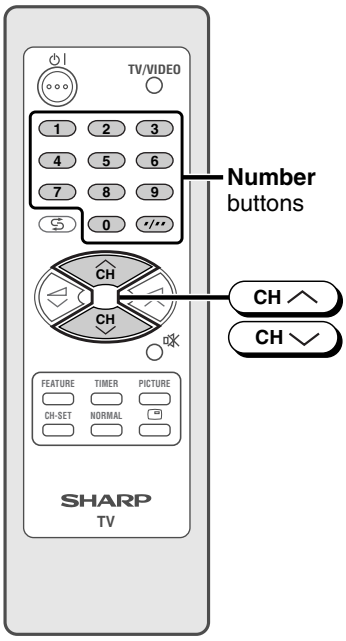
- AUTO PRESET stores all receivable channels including those which may be very weak and not clearly visible. To preset only those channels designated for the local viewing region, use MANUAL PRESET. See 15.
- Unused channels are automatically skipped.

Manual channel tuning

Enables manual channel tuning to a desired TV station.

TV Set (Bottom)





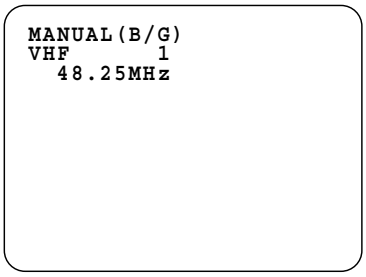
1 **Press MENU/PRESET on the TV set for more than two seconds.**

- The language select mode appear.

2 **Press MENU/PRESET on the TV set twice to display MANUAL mode screen.**

- Pressing MENU/PRESET changes the screen as shown below.

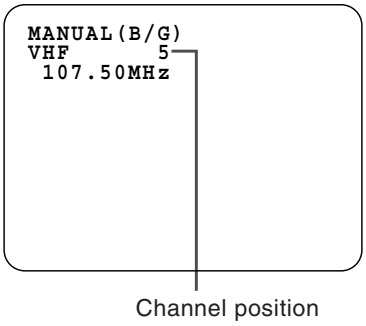
→ Language ⟶ AUTO ⟶ MANUAL ┐
Normal screen ←┘



3 **Press CH ∧ / CH ∨ or number buttons to select channel position.**

4 **Press ◿∧ / ◿∨ on TV set to locate channel you wish to preset to current channel position.**

- Search is initiated and when a TV signal is received during the search, the search stops.

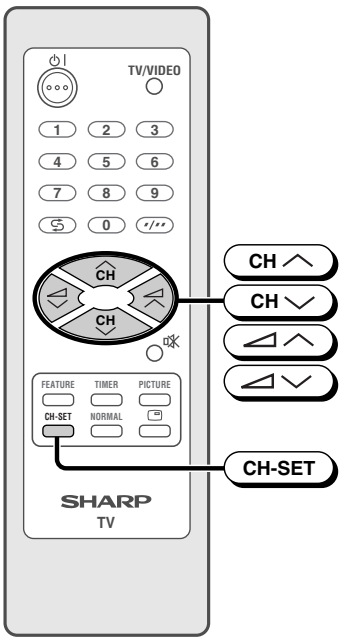


5 **Repeat steps 3 and 4 above, to preset channel positions for other broadcasts.**

6 **Press MENU/PRESET on the TV set again to display normal screen.**

Channel setting

Enables individual channel setting.



1 **Press CH-SET to call CH-SETTING screen.**

2 **Press CH ∧ / CH ∨ to select desired setting.**

3 **Each time you press ◿∧ / ◿∨, setting for individual items changes as follows:**

```
CH-SETTING

◆POSITION        CH27
 COLOUR          AUTO
 SOUND           B/G
 SKIP            OFF
 FINE            168.25MHz


∨CH∧:SELECT
∨◿∧:ADJUST
```

- **POSITION**
  The channel position changes to the higher or lower number.
- **COLOUR**
  AUTO ⟷ PAL ⟷ SECAM ⟷ N443
- **SOUND**
  B/G ⟷ I ⟷ D/K
- **SKIP**
  ON ⟷ OFF
  Channel numbers with a "✚" mark on the left are set to SKIP. To turn off SKIP, press the number buttons to select the desired channel and then set "SKIP" to "OFF".
- **FINE**
  The frequency changes to allow fine tuning.

4 **Press CH-SET to return to normal screen.**

- When you select AV1 or AV2 for the channel position, the CH-SETTING screen changes as shown on the right and the colour mode changes in the following order:

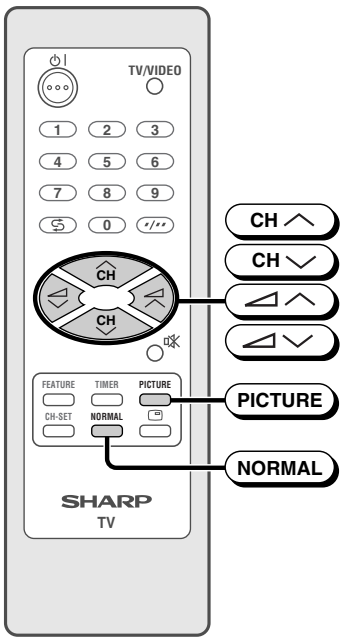
```
CH-SETTING

◆POSITION        AV1
 COLOUR          AUTO


∨CH∧:SELECT
∨◿∧:ADJUST
```

→ AUTO ⟷ PAL ⟷ SECAM ⟷ N443 ⟷ N358 ←

NOTE

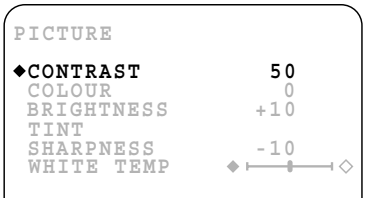
- Switching COLOUR system:
  Set the system to "AUTO" for normal TV reception. The AUTO mode automatically detects the receiving signal system and changes the reception system of the TV set. When the picture is not stable, switching to an appropriate system may improve the picture quality.
- In a weak reception area, or under bad reception conditions, you can change the frequency by fine tuning.
- When using FINE, the channel number changes from green to yellow.
- To return the channel to its original frequency setting, follow the manual channel tuning procedure.
  See 15.

Picture adjustment



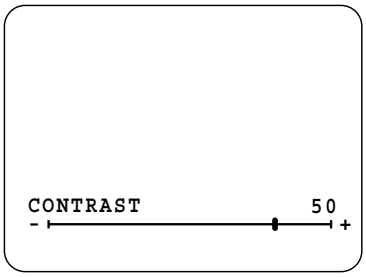
1 **Press PICTURE to call PICTURE screen.**

2 **Press CH ∧ / CH ∨ to select adjustment items.**



3 **Adjust using ◁∧ / ◁∨.**

- Wait for approximately three seconds to return to PICTURE menu.



4 **Repeat steps 2 and 3 above to adjust other items.**

5 **Press PICTURE to return to normal screen.**

- Pressing NORMAL while a PICTURE selection is displayed, only the selected mode is reset to the standard (factory-setting) position.
- Pressing NORMAL while a PICTURE menu screen is displayed will reset all the items of PICTURE menu to the standard (factory-setting) position.

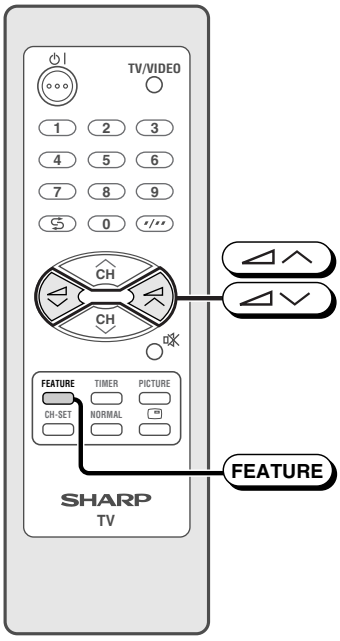
The following table lists the adjustment items shown in the PICTURE menu and how they change as you press ◁∧ / ◁∨.

Selected item	Press ◁∨		Press ◁∧
CONTRAST	To decrease contrast	- +	To increase contrast
COLOUR	For less colour intensity	- +	For more colour intensity
BRIGHTNESS	For less brightness	- +	For more brightness
TINT*	To move tint toward red	◆ ◇	To move tint toward green
SHARPNESS	For less sharpness	- +	For more sharpness
WHITE TEMP	To more reddish background	◆ ◇	To more bluish background

*: TINT can only be selected and adjusted when receiving NTSC broadcasts. (AV only)

Blue screen

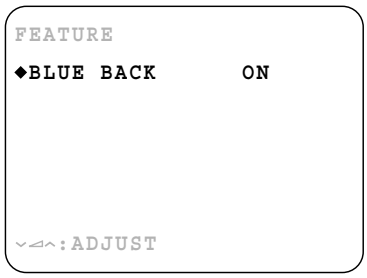
Automatically turns the screen blue if a broadcast signal is not received.



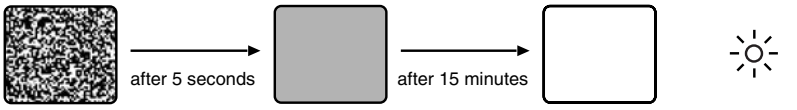
1 Press (FEATURE) to call FEATURE screen.

2 Press (▵^) / (▵v) to select "BLUE BACK" to "ON" or "OFF".

3 Press (FEATURE) to return to normal screen.



When BLUE BACK is set to "ON"

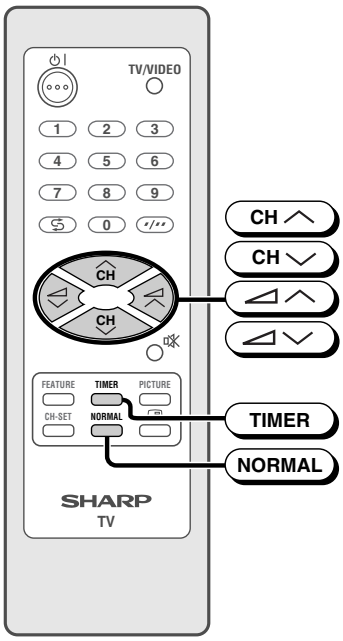


NOTE

- Poor reception due to weak signals and too much noise may activate BLUE BACK, despite the presence of a broadcast signal. To continue watching TV under these conditions, switch "BLUE BACK" to "OFF".
- When Off timer is set, the OFF TIMER setting has priority over BLUE BACK.

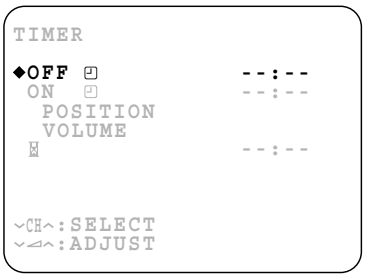
Off timer

Automatically turns power off after a set length of time has passed.



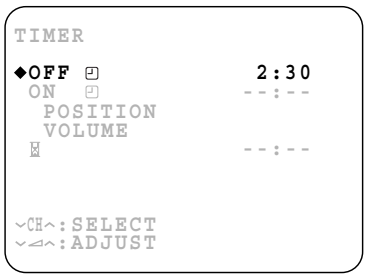
1 **Press TIMER to call TIMER screen.**

2 **Press CH ∧ / CH ∨ to select "OFF ⏎".**



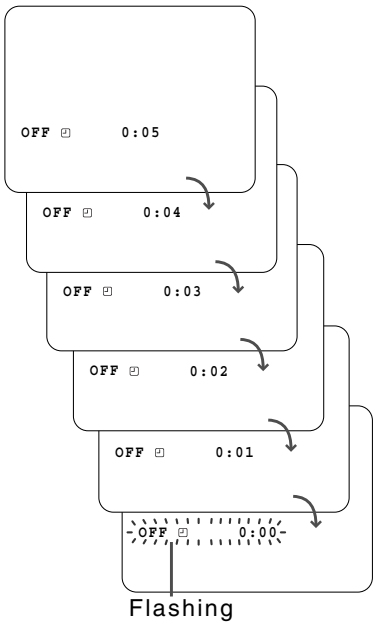
3 **Press ◿∧ / ◿∨ to set time for TV to turn off.**

- Maximum time that can be preset is 12 hours and 50 minutes.
- As soon as the time is entered, the timer starts to count down.



4 **Press TIMER to return to normal screen.**

- Five minutes before the preset length of time expires (in the example, after two hours and 25 minutes), the remaining time appears on the screen for several seconds.
- A flashing display of the remaining time appears during the last few seconds.
- When the preset length of time has passed, the TV set enters the Standby mode.

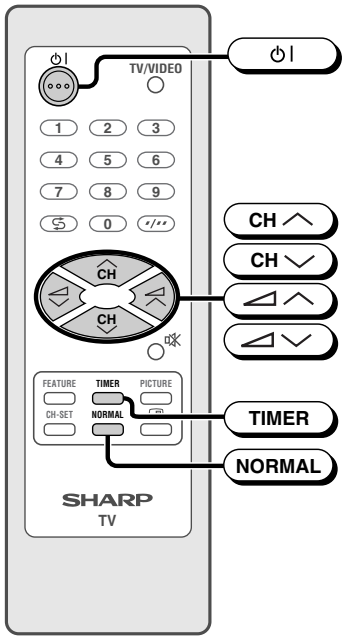


NOTE

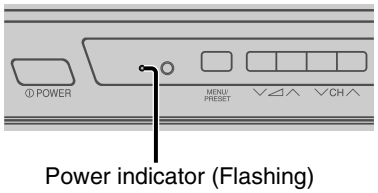
- To cancel the timer setting, press NORMAL when "◆" is displayed on the left of "OFF ⏎" so as to set the timer to "- - : - -".
- The timer can be set in ten-minute intervals.
- The Off timer is cancelled if the power is turned off or set to the Standby mode using ⏻I on the remote control or ⏻POWER on the TV set, or if the power is otherwise interrupted.

On timer

Automatically turns power on after a set length of time has passed.



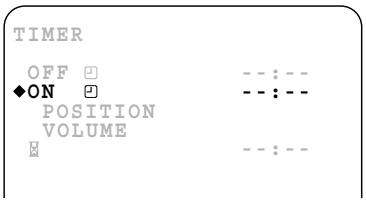
TV Set (Bottom)



Power indicator (Flashing)

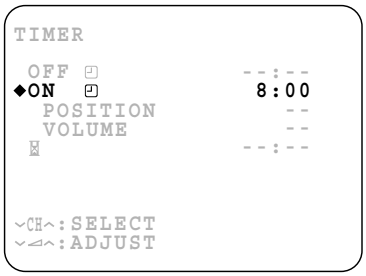
1 **Press TIMER to call TIMER screen.**

2 **Press CH ∧ / CH ∨ to select "ON ⏎".**



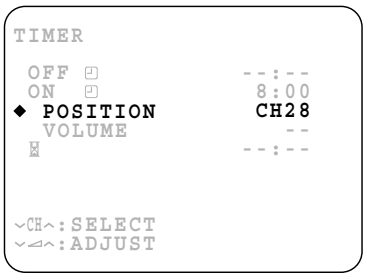
3 **Press ◿∧ / ◿∨ to set time for TV to turn on.**

- Maximum time that can be preset is 12 hours and 50 minutes.
- As soon as the time is entered, the timer starts to count down.



4 **Press CH ∧ / CH ∨ to select "POSITION".**

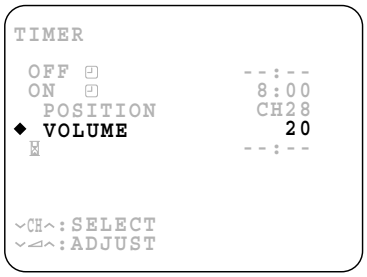
5 **Press ◿∧ / ◿∨ to set the channel.**



6 **Press CH ∧ / CH ∨ to select "VOLUME".**

7 **Press ◿∧ / ◿∨ to set volume.**

8 **Press TIMER to return to normal screen.**



9 **Press ⏻I to put TV set into Standby mode.**

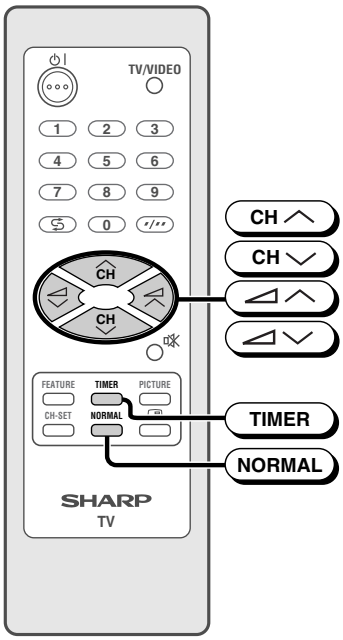
- Power indicator will flash to indicate On Timer is set.
- When the preset length of time (in the above example, eight hours) has passed, the power turns on and a picture appears on the screen.
- The ON TIMER speaker volume gradually increases from zero to preset volume.

NOTE

- To cancel the timer setting, press NORMAL when "◆" is displayed on the left of "ON ⏎" so as to set the timer to "- - : - -".
- The timer can be set in ten-minute intervals.
- The On Timer is cancelled if the power is turned off using ⏻POWER on the TV set.
- If the TV set is turned on by the On Timer, then the TV set will be automatically turned off in two hours if no buttons are pressed on the TV set or remote control.

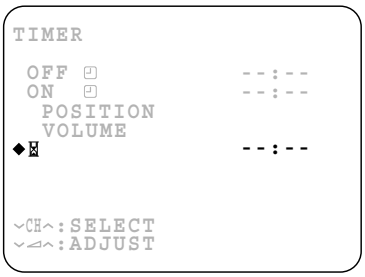
Reminder on-screen timer

Lets you know when a preset length of time has passed by displaying a countdown timer on the screen. This is useful for timer cooking while you watch TV.



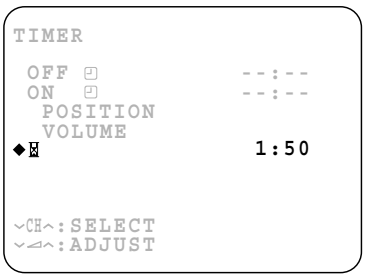
1 Press TIMER to call TIMER screen.

2 Press CH ∧ / CH ∨ to select "⧗".



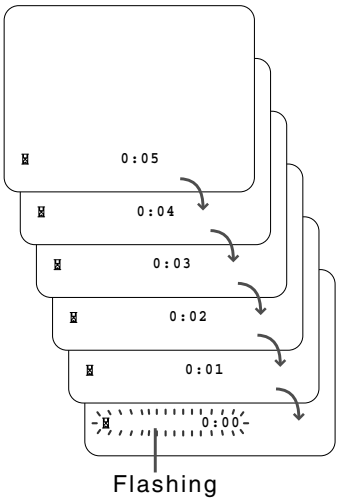
3 Press ◿ ∧ / ◿ ∨ to set time.

- Maximum time that can be preset is 12 hours and 50 minutes.
- The right example shows that the Reminder will be activated after one hour 50 minutes.



4 Press TIMER to return to normal screen.

- Five minutes before the preset length of time expires (in the example, after one hour and 45 minutes) and each minute thereafter, the remaining time appears on the screen for several seconds.
- When the preset length of time has passed, "⧗ 0:00" flashes in red.



NOTE

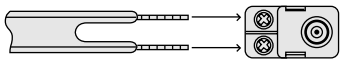
- This function also works in the Standby mode. Power is automatically turned on five minutes before the preset length of time expires. The TV set automatically returns to the Standby mode approximately 1 minute after the timer expired if no buttons are pressed on the TV set or remote control.
- The Reminder is cancelled if ⏻POWER on the TV set is pressed or if the power is otherwise interrupted.
- The timer can be set in ten-minute intervals.
- To cancel the timer setting, press NORMAL when "◆" is displayed on the left of "⧗" so as to set the timer to "- - : - -".

Connections

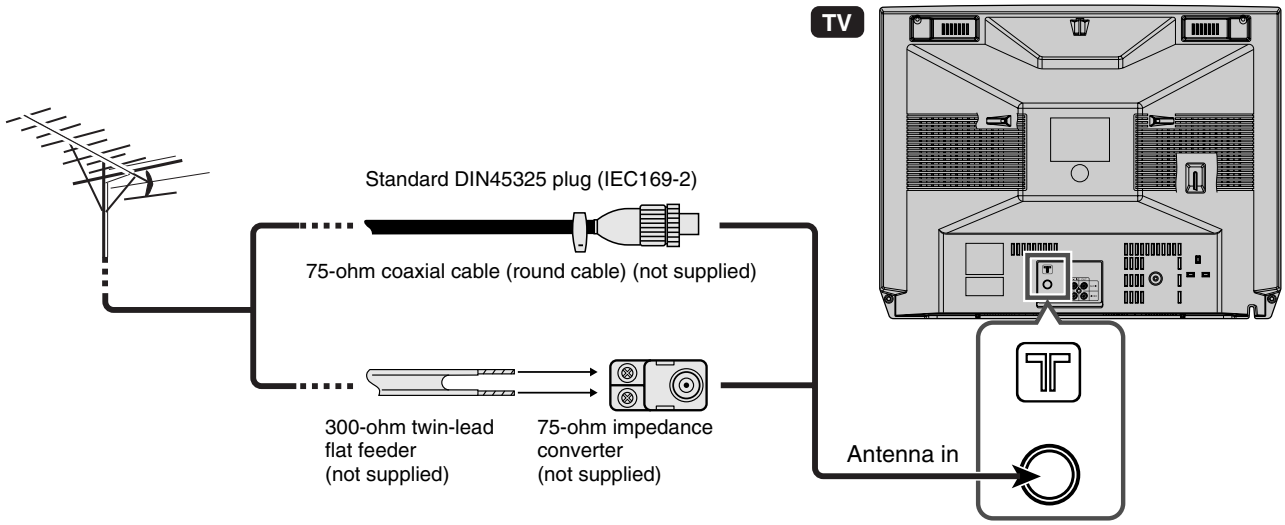
Connecting to an antenna

To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for coaxial and feeder cables.

If your outdoor antenna uses a 75-ohm coaxial cable with a standard DIN45325 plug (IEC 169-2), plug it into the antenna jack at the rear of the set.

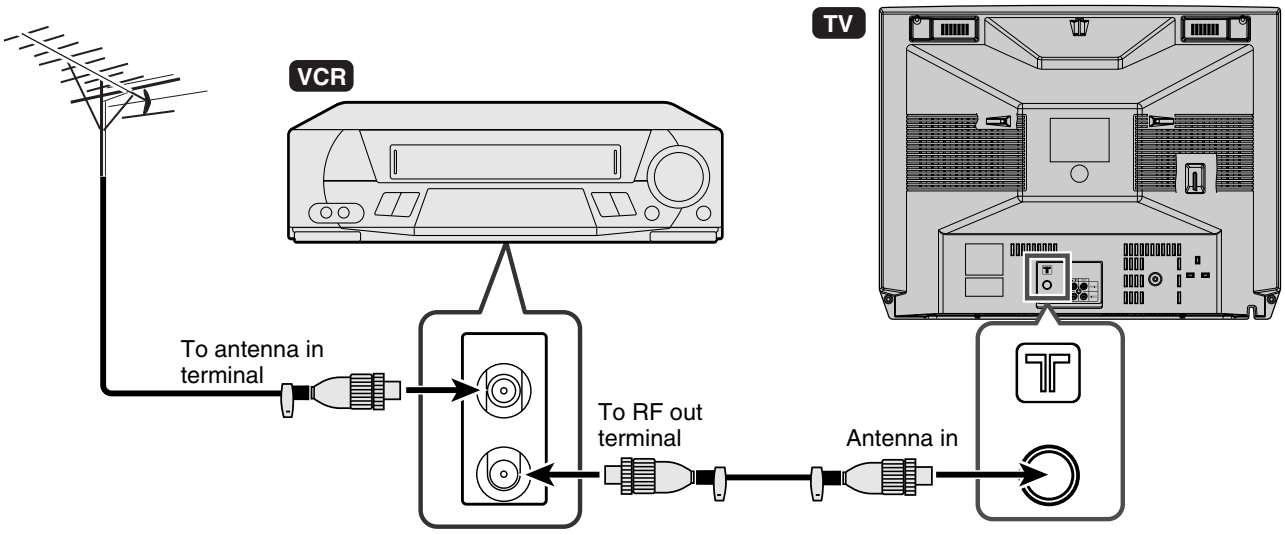


If your outdoor antenna uses a 300-ohm twin-lead flat feeder, connect a 300-ohm to 75-ohm impedance converter and plug it into the antenna jack at the rear of the set.


TV
Standard DIN45325 plug (IEC169-2)
75-ohm coaxial cable (round cable) (not supplied)
300-ohm twin-lead flat feeder (not supplied)
75-ohm impedance converter (not supplied)
Antenna in

Connecting to an antenna via a VCR

You can also connect the TV set to the tuner on a VCR using the connection shown below.



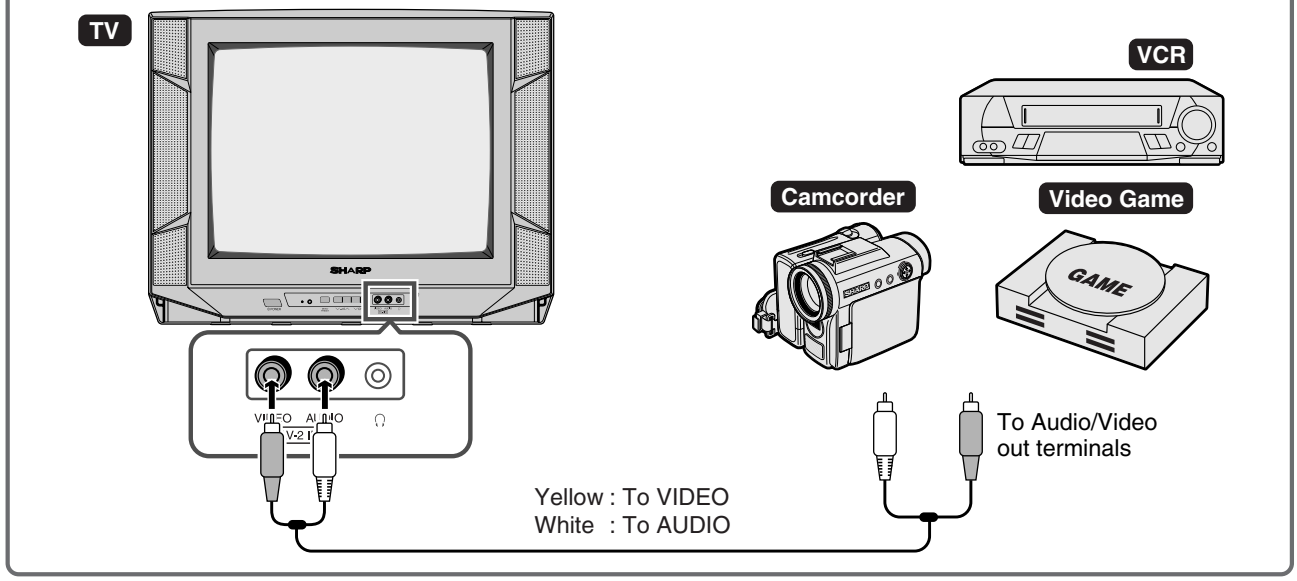
NOTE

- When using the RF terminal connection, set the TV to channel zero to make initial adjustments for the VCR.
- Turn off the power on the TV set and the VCR being connected before making the above connections. Be sure the cord plugs are fully inserted in the connection terminals.
- See the operation manual of your VCR for connection details.

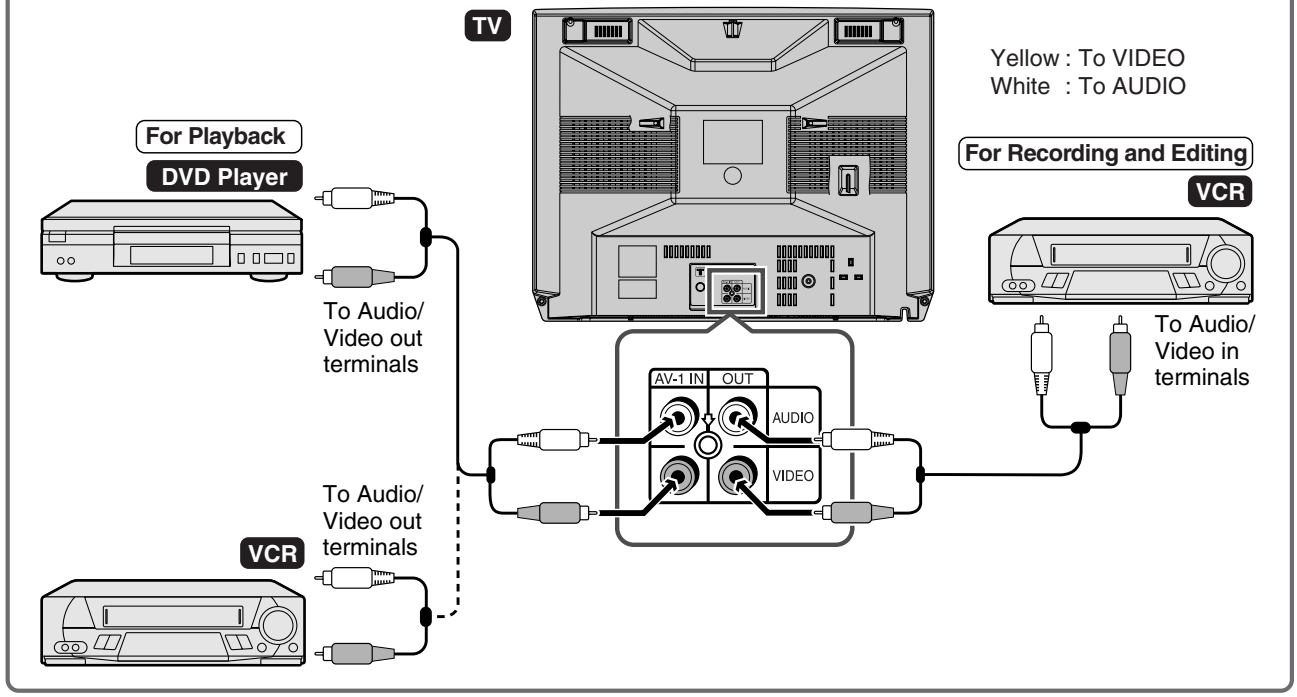
Connecting to video equipment

Enjoy playback from a video disc player, VCR or other video equipment by connecting them to this TV set using the Audio/Video in terminals.

Example use of front terminals



Example use of rear terminals



NOTE

- Turn off the power on the TV set and the VCR being connected before making the above connections. Be sure the cord plugs are fully inserted in the connection terminals.
- The audiovisual cords required to connect the TV set with video equipment may differ from those shown in the above diagram. See the operation manual of your video equipment for connection details.
- The above recording and editing connections are for intended solely for personal use and not for the illegal copying of audiovisual material protected by copyright laws.

Troubleshooting

The following problems do not always indicate a hardware failure. Therefore, please use the troubleshooting guide below before calling for repair service.
If, after following the guide none of the remedies work, unplug the TV set and call for service.

Quick Service Check List / Problems → / Possible Causes/Remedies ↓	Remote control does not work.	Bars on screen	Picture distorted.	Picture rolls vertically.	No colour	Poor reception on some channels	Picture weak.	Picture lines or streaks	Picture ghosting	Picture blurred.	Sound OK, picture poor.	Picture OK, sound poor.	No picture or sound
Try a new channel to check for possible station trouble.			●	●	●	●	●	●	●	●	●	●	●
TV not plugged in. Outlet power OFF.	●												●
⏻**POWER** switch of TV not ON.	●												●
Antenna not connected to terminal at the back of the TV set.					●	●	●		●		●		●
If outside antenna is used, check for broken wires.		●	●	●	●	●	●	●	●	●	●		●
Check for local interference.		●		●		●		●	●		●	●	
Turn OFF using the ⏻ **POWER** switch, then turn ON again after a minute.	●												●
Adjust COLOUR control.					●		●				●		
Check batteries in the remote control.	●												
Try fine tuning to correct.			●		●		●			●	●		
Contrast setting in picture mode might be all the way to the minus side. Press the **NORMAL** button on the remote control to correct.											●		●
Increase the volume.												●	●

NOTE • This unit is equipped with a microprocessor. Its performance could be adversely affected by external electrical noise or interference. If this should happen, unplug the unit and plug it in again after a few minutes.

Specifications

MODEL			20AG2-SMK3
Receiving System			World multi 18 system
	TV Broadcasts/ VCR Playback		PAL-I PAL-B/G PAL-D/K SECAM-B/G SECAM D/K, K1
	VCR Playback		NTSC 4.43/5.5 MHz/60 Hz NTSC 4.43/6.0 MHz/60 Hz NTSC 4.43/6.5 MHz/60 Hz NTSC 4.43/5.5 MHz/50 Hz NTSC 4.43/6.0 MHz/50 Hz NTSC 4.43/6.5 MHz/50 Hz SECAM-I (6.0 MHz)
	VCR Playback (Using Video-in terminals)		SECAM-L (French SECAM) PAL 60Hz NTSC 3.58 MHz
	Laserdisc Player Playback (Using RF-in terminals)		PAL 5.5 MHz/60 Hz PAL 6.0 MHz/60 Hz PAL 6.5 MHz/60 Hz
Reception Channels			
	PAL-B/G SECAM-B/G	VHF	E2–E12 ch
		UHF	E21–E69 ch
	PAL-D/K SECAM-D/K, K1	VHF	C1–C12 ch, R1–R12 ch
		UHF	C13–C57 ch, R21–R69 ch
	PAL-I	VHF	B–J ch
		UHF	21–69 ch (Hong Kong)
	CATV		S1–S20 ch, S21–S41 ch (Hyper)
Receiving Frequency			48.25 MHz – 863.25 MHz
Channel Tuning			100-Channel Electronic Tuner with Full Auto Tuning System
Picture Tube			20-Inch Tinted
Terminals			Audio/video input × 2 (front × 1, rear × 1) Audio/video output × 1 (rear) , Headphone jack × 1 (front)
Sound Output			2.5 W (RMS) × 2
Power Source			AC 110 – 240V, 50/60 Hz
Power Consumption			76 W
Dimensions			594 (W) × 465 (H) × 484 (D) mm
Weight			17.5 kg (Approx.)

NOTE

- Design and specifications are subject to change without notice.
- Receiving system: These receiving systems, encompassing all currently available technology, include those with planned broadcast, videotape and laserdisc hardware and software.
- Reception channels: Some examples of the main receivable channels are shown above.

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